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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/081,423	02/22/2002	Pierre Roux	P-6464	1028	
7590 05/05/2005			EXAMINER		
Michael L. Kenaga			TORRES, MARCOS L		
Piper Marbury I	Rudnick & Wolfe				
P.O. Box 64807	7	ART UNIT	PAPER NUMBER		
Chicago, IL 60664-0807			2687		
			DATE MAILED: 05/05/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)				
Office Action Summary		10/08	1,423	ROUX ET AL.				
		Exami	ner	Art Unit				
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Period fo	The MAILING DATE of this communica or Reply	ntion appears on	the cover sheet with the d	correspondence ad	dress			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION OF THIS COMMUNICATION OF THIS COMMUNICATION OF THE PROVISION	ATION. 7 CFR 1.136(a). In no cation. lays, a reply within the ory period will apply an l, by statute, cause the	event, however, may a reply be tin statutory minimum of thirty (30) day d will expire SIX (6) MONTHS from application to become ABANDONE	nely filed /s will be considered time i the mailing date of this of ID (35 U.S.C. § 133).				
Status								
1)🛛	Responsive to communication(s) filed	on <u>08 Decemb</u> e	<u>r 2004</u> .					
2a)⊠	_				•			
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	☑ Claim(s) <u>1-13</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed. Claim(s) <u>1-7 and 9-13</u> is/are rejected. Claim(s) <u>8</u> is/are objected to.							
· —								
8)	Claim(s) are subject to restriction	n and/or electio	n requirement.					
Applicat	ion Papers							
9) The specification is objected to by the Examiner.								
10)[0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
440	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)	The oath or declaration is objected to b	y the Examiner.	Note the attached Office	Action or form P	TO-152.			
Priority (ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do)-(d) or (f).				
	2. Certified copies of the priority do			ion No				
	3. Copies of the certified copies of				l Stage			
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* 5	See the attached detailed Office action to	•	` ''	ed.				
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	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC	049)	4) Interview Summary Paper No(s)/Mail D	(PTO-413) ate	•			
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Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to claim 11 have been considered but are moot in view of the new ground(s) of rejection.
- 2. Applicant's arguments filed December 8, 2004 have been fully considered but they are not persuasive.
- 3. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., soft bits are measure of probability that a received bit corresponds to a binary value) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.

- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 1-6 and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo EP0998057 in view of Chambert US005867791A.

As to claims 1, 6 and 9-10, Kondo discloses the method of communication on an uplink between user equipment and a first radio network controller of a cellular network infrastructure comprising an active set of base nodes which each receive radio signals transmitted by the said user equipment (see par. 0005-0006); generation, in each base node of the active set, of at least a first frame of soft bits on the basis of the received radio signal and a corresponding first frame of hard bits; transmission in the cellular network infrastructure, from each base node of the active set, of an accuracy indicator which results from an error check on the frame of hard bits; transmission, to the first radio network controller, of the said first frame of hard bits from a base node whose accuracy indicator has a so-called good level, if at least one accuracy indicator has the said good level (see par. 0012-0036, 0061, 0067). Kondo does not specifically disclose

good level, of each of the first frames of soft bits from at least two base nodes and the combination in the first radio network controller of the transmitted frames of soft bits in order to generate a second frame of hard bits. Chambert discloses transmission, to the first radio network controller if no accuracy indicator has the said good level, of each of the first frames of soft bits from at least two base nodes and the combination in the first radio network controller of the transmitted frames of soft bits in order to generate a second frame of hard bits (see col. 3, lines 7 – col. 4, line 13). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teaching for enhancing the quality of the communication data.

As to claims 2-3 and 5, Kondo discloses a method of communication on an uplink wherein: each accuracy indicator transmitted in the cellular network infrastructure for the said uplink is transmitted to the first radio network controller; the said first radio network controller (see par. 0013). Chambert discloses if it receives at least one accuracy indicator of good level, chooses that one of the base nodes whose accuracy indicator has the good level and requests the chosen base node to transmit to it the said first frame of hard bits; the said first radio network controller, if it does not receive any accuracy indicator of good level, chooses at least two base nodes and requests them to transmit to it their frames of soft bits (see col. 2, lines 5-16). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teaching for enhancing the quality of the communication data.

As to claim 4, Kondo discloses the method of communication wherein, among the nodes whose accuracy indicator has the good level; the first radio network controller chooses the one that meets filtering criteria (see par. 0061-0063). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teaching for enhancing the quality of the communication data.

8. Claims 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo EP0998057 in view of Mohebbi US006603971B1.

As to claims 11 and 13, Kondo discloses Base node for exploiting the macro diversity on an uplink between a user equipment and a radio network controller of a cellular network infrastructure, arranged to receive radio signals transmitted by the said user equipment (see abstract), comprising: first means for generating a frame of soft bits (measure of the degree of errors) on the basis of the radio signal received by the said base node and a corresponding frame of hard bits: second means for transmitting, in the cellular network infrastructure, an accuracy indicator that results from an error check on the frame of hard bits (regular bits); third means for transmitting the frame of hard bits and for transmitting the frames of soft bits to the radio network controller (see par. 0012-0036, 0042-0067). Kondo does not specifically disclose to transmit selectively to a radio network controller. In an analogous art, Mohebbi discloses to transmit selectively to a radio network controller (see fig. 9), thereby reducing network traffic. Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teachings for the simple purpose of saving network resources.

9. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo in view of Mohebbi as applied to claim 11 above, and further in view of JungUS005892802A.

As to claim 12, Kondo '057 discloses the base node comprising a third means in order to transmit the frame of hard bits or the frames of soft bits depending on the received request. Kondo does not specifically disclose means for receiving a request message from the radio network controller and activating a function. Jung discloses means for receiving a request message from the radio network controller and activating a function (see col. 4, line 63 – col. 5, line 2). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teachings for the simple reason of automation.

10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo in view of Chamber as applied to claims 1-6 and 9-10 above, and further in view of Longoni US 20020052206A1.

As to claim 7, Kondo '057 discloses the method of communication on an uplink wherein: at least one accuracy indicator transmitted in the cellular network infrastructure; receives an accuracy indicator with good level, transmits this accuracy indicator of good level to the first radio network controller, chooses that one of the base nodes whose accuracy indicator has the good level, transmits the accuracy indicator of good level to the first radio network controller and requests the chosen base node to send it to the said first frame of hard bits to provide for a transmission to the first radio network controller; the said radio network controller, if it does not receive an accuracy

indicator of good level (see par. 0012-0036, 0061, 0067). Chamber discloses choose at least one base node and requests it to send to it its frame of soft bits to provide for a transmission to the first radio network controller (see col. 2, lines 5-16). Kondo do not specifically disclose transmitting to a second radio network controller. Longoni discloses indicator transmitted in the cellular network to a second radio network controller and managing resources with that data (see abstract, par. 0025, 0067). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to combine these teaching for enhanced reliability.

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Allowable Subject Matter

- 11. Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 12. The following is a statement of reasons for the indication of allowable subject matter: the method of communication on an furthermore comprising the following actions executed in a base node comprising a base controller and grouping several base stations: generation, in at least one base station of the base node, of a third frame of soft bits on the basis of the radio signal received from the user equipment by the said base station for the said uplink and a third frame of hard bits; transmission in the base node, from each base station receiving the radio signal for the said uplink, of a local accuracy indicator that results from an error check on the frame of hard bits; transmission, to the base controller, of the third frame of hard bits from a base station whose local accuracy indicator has the said good level, if at least one local accuracy

indicator has the said good level; transmission, to the base controller, if no local accuracy indicator has the said good level, of the frame of soft bits from at least one base station and combination in the base controller of the frames of soft bits transmitted and generation of a fourth frame of hard bits; generation, in the base controller, of the accuracy indicator to be transmitted in the cellular network infrastructure such that the said accuracy indicator has the best level between that of the local accuracy indicator and the one that results from an error check on the fourth frame of hard bits. The combination of the steps of this method have not been found or fairly suggested in the prior art search.

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any response to this Office Action should be mailed to:

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Hand delivered responses should be brought to:

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcos L Torres whose telephone number is 703-305-1478. The examiner can normally be reached on 8:00am-6:00 PM alt. Wednesday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester G Kincaid can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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SONNYTRINH PRIMARY EXAMINER

Marcos L Torres Examiner Art Unit 2687

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